IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Priority: Swedish Patent Appln. No. 0002440-6, filed 28 June 2000

Inventor(s):   Frederik LARSSON, Bengt WERNER, and Peter MAGNUSSON

Title: ***Interpreter***   Atty. Docket No. 230.010

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, DC 20231

Dear Sir:

    This preliminary amendment is directed to a new U.S. application that claims priority to SE 0002440-6, filed 28 June 2000. Please enter the following amendments before calculating any fees:

In The Claims

Please cancel, without prejudice, claim 35.

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Please add the following new claims:

36.   A computer program product that comprises an algorithm for interpreting service routines to be executed, wherein the algorithm is configured to:

(a)   keep track of how frequently each service routine is executed;

(b)   group a plurality of frequently used and related service routines into one of a plurality of functions; and

(c)   assign a service routine code to each frequently used service routine that is shorter than at least one other service routine.

37.   The computer program product of claim 36 wherein the algorithm is configured such that the plurality of frequently used and related service routines that are grouped together in one of a plurality of functions are related by how frequently they are executed.

38.   The computer program product of claim 37 wherein the algorithm is configured such that the plurality of frequently used and related service routines that are grouped together in one of a plurality of functions are further related as being service routines that are executed in sequence.

39.   The computer program product of claim 36 wherein the algorithm is configured to keep track of how frequently each service routine is executed by collecting and recording statistics of how often service routines are executed and what parameters they had.

40.   The computer program product of claim 36 wherein the algorithm is configured to group a plurality of frequently used and related service routines into one of a plurality of functions according to program jumps between frequently used service routines with regard to a predetermined frequency value.

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41.   The computer program product of claim 36 wherein the algorithm is configured to assign a service routine code to each frequently used service routine that is shorter than at least one other service routine by encoding frequently used service routines grouped into a function with a shorter service routine code than service routine codes of service routines executed thereafter such that frequently used service routines have a faster execution speed.

REMARKS

This amendment is presented to eliminate independent claim 35 and add claims 36-41. Claims 36-41 are similar in scope to claim 35, but are believed to be presented in more proper form and without multiple dependency. Entry of the above amendments is requested and early consideration and allowance is respectfully requested.

The Examiner is invited to contact the undersigned if it would expedite allowance of this application.

Respectfully submitted,

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Reg. No. 40,828

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